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APPLICATION NO.	TION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/842,531	04/25/2001	Hyon T. Kim	5181-83600 7257			
75	90 04/17/2006	EXAMINER				
Robert C. Kov	vert	NGUYEN, HAI V				
Conley, Rose &	Tayon, P.C.					
P.O. Box 398			ART UNIT	PAPER NUMBER		
Austin, TX 78767			2142			
			DATEMAN ED CANTOCC			

DATE MAILED: 04/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	Application No.		Applicant(s)				
Office Astism Commence		09/842	:,531		KIM, HYON T.				
Office Action Summary			ner		Art Unit				
			Nguyen		2142				
Period fo	The MAILING DATE of this commun or Reply	nication appears on	the cove	r sheet with the c	orrespondence ad	ldress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum street or reply within the set or extended period for reply reply received by the Office later than three months are dipatent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF s of 37 CFR 1.136(a). In no munication. tatutory period will apply an y will, by statute, cause the	THIS Control  event, how  d will expire  application	OMMUNICATION vever, may a reply be times SIX (6) MONTHS from to become ABANDONED	l. ely filed the mailing date of this c O (35 U.S.C. § 133).				
Status						:			
1)[\	Responsive to communication(s) file	ed on 14 February	2006						
·	Responsive to communication(s) filed on <u>14 February 2006</u> .  This action is <b>FINAL</b> . 2b)⊠ This action is non-final.								
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٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
-	Claim(s) <u>1-90</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	)☐ Claim(s) is/are allowed.								
6)⊠	☑ Claim(s) <u>1-90</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)[	8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers					į			
9) The specification is objected to by the Examiner.									
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.									
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
•	ınder 35 U.S.C. § 119	•				!			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
۵٫۱	a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
* 0	application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
	ree the attached detailed office detail		, and o	Spies not receive	u.				
Attachmen	t(s)								
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)									
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 12/05/05.</li> </ul>			5) 🗌	Paper No(s)/Mail Da Notice of Informal Pa Other:	te	O-152)			
Attachmen  1) Notice 2) Notice 3) Inform	See the attached detailed Office action  t(s)  te of References Cited (PTO-892)  te of Draftsperson's Patent Drawing Review (Fination Disclosure Statement(s) (PTO-1449 or	on for a list of the ce	ertified co	opies not received Interview Summary ( Paper No(s)/Mail Da Notice of Informal Pa	(PTO-413) te	O-152)			

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## **DETAILED ACTION**

- 1. This Office Action is in response to the panel decision of the Pre-Appeal Brief Review Conference received on 14 February 2006.
- 2. Claims 1-90 are presented for examination.
- 3. The pending related application #: 09/842,495, 09/842,596.
- 4. The related patent #: 6,920,491 B2, 6,965,951 B2.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(b) that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-90 are rejected under 35 U.S.C. 102(b) as being anticipated by **Stoevhase** U.S. patent # **5,805,924**.
- 7. As to claim 1, Stoevhase, Method And Apparatus For Configuring Fabrics Within A Fibre Channel System, substantially teaches the invention as claimed, including a method for handling fabric state changes (fabric element's name or service changes), comprising:

receiving an event indicating a fabric state change (DSP requests) for one or more host adapter ports (col. 7, line 44 – col. 8, line 67); and

dynamically changing the host system's fabric device configuration in response to said receiving an event (col. 2, lines 13-60; col. 6 line 44 – col. 7, line 30; col. 7, line 44 – col. 8, line 67), wherein said dynamically changing comprises bringing online or taking

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offline one or more fabric devices for the one or more host adapter ports for the host system (col. 2, lines 13-60; col. 6 line 44 – col. 7, line 30; col. 7, line 44 – col. 8, line 67; col. 18, line 12 – col. 19, line 47; col. 21, line 40 - col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).

- 8. As to claim 2, Stoevhase teaches, determining an event type for said event (name change, service changes, inactive or removed or port addresses changes; col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 9. As to claim 3, Stoevhase teaches, wherein if the event type indicates that one of the fabric host adapter ports has lost connectivity to the fabric, said dynamically changing comprises taking offline one or more fabric devices configured through the host adapter port that lost connectivity to the fabric (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 10. As to claim 4, Stoevhase teaches, wherein said taking offline one or more fabric devices configured through the host adapter port that lost connectivity to the fabric comprises: reading a persistent repository that indicates which fabric devices are currently online for the host adapter port that lost connectivity to the fabric; and taking offline the fabric devices indicated by the persistent repository for the host adapter port that lost connectivity to the fabric (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col.

- 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 11. As to claim 5, Stoevhase teaches, wherein said taking offline comprises disabling an operating system node for each of the one or more fabric devices being taken offline, wherein each operating system node provides a communication mechanism to a corresponding fabric device (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 12. As to claim 6, Stoevhase teaches, wherein if the event type indicates that one of the fabric host adapter ports has lost connectivity to the fabric, said dynamically changing comprises:

accessing a configuration file for the host adapter port that lost connectivity to the fabric to determine if fabric devices for that host adapter port are to be unconfigured if that host adapter port loses connectivity to the fabric; and if the configuration file indicates that fabric devices are to be unconfigured upon lose of connectivity to the fabric, taking offline one or more fabric devices configured through the host adapter port that lost connectivity to the fabric (col. 2, lines 13-60; col. 6 line 44 – col. 7, line 30; col. 7, line 44 – col. 8, line 67; col. 18, line 12 – col. 19, line 47; col. 21, line 40 - col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).

13. Claim 7 has similar limitations of claim 4; therefore, it is rejected under the same rationale as in claim 4.

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- 14. Claim 8 has similar limitations of claim 5; therefore, it is rejected under the same rationale as in claim 5.
- 15. As to claim 9, Stoevhase teaches, prior to said receiving an event: a host adapter driver for one of the one or more host adapter ports becoming inactive or detached; and generating the event indicating that one of the one or more host adapter ports has lost connectivity to the fabric (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 16. As to claim 10, Stoevhase teaches, wherein said accessing a configuration file for the host adapter port that lost connectivity to the fabric comprises reading a user defined attribute in the configuration file, wherein the user-define attribute indicates whether or not fabric devices for that host adapter port are to be unconfigured if that host adapter port loses connectivity to the fabric (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 17. As to claim 11, Stoevhase teaches, wherein if the event type indicates that one of the fabric host adapter ports has acquired connectivity to the fabric, said dynamically changing comprises bringing online one or more fabric devices for the host adapter port that has acquired connectivity to the fabric (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).

- 18. As to claim 12, Stoevhase teaches, wherein said bringing online one or more fabric devices for the host adapter port that has acquired connectivity to the fabric comprises: reading a persistent repository that indicates which fabric devices were previously online for the host adapter port that has acquired connectivity to the fabric; and bringing online the fabric devices indicated by the persistent repository for the host adapter port that has acquired connectivity to the fabric (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 19. As to claim 13, Stoevhase teaches, wherein said bringing online comprises creating an operating system node for each of the one or more fabric devices being to brought online, wherein each operating system node provides a communication mechanism to a corresponding fabric device (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 20. As to claim 14, Stoevhase teaches, wherein if the event type indicates that one of the fabric host adapter ports has acquired connectivity to the fabric, said dynamically changing comprises: accessing a configuration file for the host adapter port that has acquired connectivity to the fabric to determine if fabric devices for that host adapter port are to be configured if that host adapter port acquires connectivity to the fabric; and if the configuration file indicates that fabric devices are to be configured upon that host adapter port's connectivity to the fabric, bringing online one or more fabric devices for that host adapter port that has acquired connectivity to the fabric (col. 2, lines 13-60;

col. 6 line 44 – col. 7, line 30; col. 7, line 44 – col. 8, line 67; col. 18, line 12 – col. 19, line 47; col. 21, line 40 - col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).

- 21. Claim 15 has similar limitations of claim 12; therefore, it is rejected under the same rationale as in claim 12.
- 22. Claim 16 has similar limitations of claim 13; therefore, it is rejected under the same rationale as in claim 13.
- 23. As to claim 17, Stoevhase teaches, prior to said receiving an event: a host adapter driver for one of the one or more host adapter ports becoming active or attached; and generating the event indicating that one of the one or more host adapter ports has acquired connectivity to the fabric (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 24. As to claim 18, Stoevhase teaches, wherein said accessing a configuration file for the host adapter port that has acquired connectivity to the fabric comprises reading a user-defined attribute in the configuration file, wherein the user-define attribute indicates whether or not fabric devices for that host adapter port are to be configured if that host adapter port acquires connectivity to the fabric (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 25. As to claim 19, Stoevhase teaches, wherein if the event type indicates that a new fabric device has been connected to the fabric, said dynamically changing comprises bringing online the new fabric device for one of the one or more host adapter ports *(col.*)

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- 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 26. As to claim 20, Stoevhase teaches, wherein said bringing online comprises creating an operating system node for the new fabric device being brought online, wherein the operating system node provides a communication mechanism to the new fabric device (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 27. As to claim 21, Stoevhase teaches, wherein said bringing online the new fabric device comprises updating a persistent repository to indicate that the new fabric device is online for the host adapter port (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 28. As to claim 22, Stoevhase teaches, wherein if the event type indicates that a new fabric device has been connected to the fabric, said dynamically changing comprises: accessing a configuration file for one of the one or more host adapter ports to determine if newly connected fabric devices for that host adapter port are to be dynamically configured; and if the configuration file indicates newly connected fabric devices are to be dynamically configured, bringing online the new fabric device for that host adapter port (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col.

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- 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 29. Claim 23 has similar limitations of claim 20; therefore, it is rejected under the same rationale as in claim 20.
- 30. Claim 24 has similar limitations of claim 21; therefore, it is rejected under the same rationale as in claim 21.
- 31. As to claim 25, Stoevhase teaches, prior to said receiving an event: connecting the fabric device to the fabric (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25); and a fabric driver generating the event indicating that the new fabric device has been connected to the fabric (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 32. As to claim 26, Stoevhase teaches, wherein said accessing a configuration file comprises reading a user-defined attribute in the configuration file, wherein the user define attribute indicates whether or not newly connected fabric devices for that host adapter port are to be dynamically configured upon detection (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 33. As to claim 27, Stoevhase teaches, wherein the one or more host adapter ports comprise Fibre Channel host adapter ports (col. 2, lines 13-60; col. 6 line 44 col. 7,

line 30; col. 7, line 44 – col. 8, line 67; col. 18, line 12 – col. 19, line 47; col. 21, line 40 - col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).

- 34. As to claim 28, Stoevhase teaches, wherein the fabric comprises a Fibre Channel switched fabric comprising a plurality of Fibre Channel switches (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 35. As to claim 29, Stoevhase teaches, wherein the fabric is part of a storage area network (SAN), and wherein the fabric devices comprise storage devices (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 36. As to claim 30, Stoevhase teaches, wherein said dynamically changing comprises verifying the one or more, fabric devices before bringing the one or more fabric devices online, wherein said verifying comprises accessing a fabric name server to determine if the one or more fabric devices are currently connected to the fabric (col. 2, lines 13-60; col. 6 line 44 col. 7, line 30; col. 7, line 44 col. 8, line 67; col. 18, line 12 col. 19, line 47; col. 21, line 40 col. 24, line 33; col. 25, lines 44-65; col. 27, lines 11-25).
- 37. Claim 31 is corresponding system claim of claim 1; therefore, it is rejected under the same rationale as in claim 1.
- 38. Claims 32-60 are similar limitations of claims 2-30; therefore, they are rejected under the same rationale as in claims 2-30.

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39. Claim 61 is corresponding computer readable medium claim of claim 1;

therefore, it is rejected under the same rationale as in claim 1.

40. Claims 62-90 are similar limitations of claims 2-30; therefore, they are rejected

under the same rationale as in claims 2-30.

41. Further references of interest are cited on Form PTO-892, which is an

attachment to this action.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hai V. Nguyen whose telephone number is 571-272-

3901. The examiner can normally be reached on 6:00-3:30 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Andrew Caldwell can be reached on 571-272-3868. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

Hai V. Nguyen

Examiner, AU 2142

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